

IFWO

RAW SEQUENCE LISTING

DATE: 08/26/2004

PATENT APPLICATION: US/10/817,525

TIME: 11:47:58

Input Set : A:\099-US1.ST25.txt

Output Set: N:\CRF4\08262004\J817525.raw

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3 <110> APPLICANT: Quark Biotech, Inc.
              Byk, Tamara
             Chajut, Ayelet
     7 <120> TITLE OF INVENTION: sFRP1 and Uses Thereof
     9 <130> FILE REFERENCE: 69222-A; 099/US1
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/817,525
C--> 11 <141> CURRENT FILING DATE: 2004-04-01
     11 <160> NUMBER OF SEQ ID NOS: 2
     13 <170> SOFTWARE: PatentIn version 3.2
     15 <210> SEQ ID NO: 1
     16 <211> LENGTH: 4469
     17 <212> TYPE: DNA
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     18 <213> ORGANISM: Homo sapiens
    21 <220> FEATURE:
     22 <221> NAME/KEY: CDS
    23 <222> LOCATION: (303)..(1244)
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     28 ceteegggag ceggggegea eccagecege agegeegeet eecegeeege geegeeteeg
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    30 accgcaggcc gagggccgcc actggccggg gggaccgggc agcagcttgc ggccgcggag
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    32 ccgggcaacg ctggggactg cgccttttgt ccccggaggt ccctggaagt ttgcggcagg
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    34 acgegegeg ggaggeggeg gaggeagece egacgtegeg gagaacaggg egeagageeg
     36 ge atg gge ate ggg ege age gag ggg gge ege ege ggg gee etg gge
                                                                             347
          Met Gly Ile Gly Arg Ser Glu Gly Gly Arg Arg Gly Ala Leu Gly
    38
                                                                             395
     40 gtg ctg ctg gcg ctg ggc gcg ctt ctg gcc gtg ggc tcg gcc agc
     41 Val Leu Leu Ala Leu Gly Ala Ala Leu Leu Ala Val Gly Ser Ala Ser
                                                                             443
     44 gag tac gac tac gtg agc ttc cag tcg gac atc ggc ccg tac cag agc
    45 Glu Tyr Asp Tyr Val Ser Phe Gln Ser Asp Ile Gly Pro Tyr Gln Ser
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     48 ggg cgc ttc tac acc aag cca cct cag tgc gtg gac atc ccc gcg gac
    49 Gly Arg Phe Tyr Thr Lys Pro Pro Gln Cys Val Asp Ile Pro Ala Asp
    50
                50
    52 ctg cgg ctg tgc cac aac gtg ggc tac aag aag atg gtg ctg ccc aac
                                                                             539
    53 Leu Arg Leu Cys His Asn Val Gly Tyr Lys Lys Met Val Leu Pro Asn
                                70
                                                                             587
    56 ctg ctg gag cac gag acc atg gcg gag gtg aag cag cag gcc agc agc
    57 Leu Leu Glu His Glu Thr Met Ala Glu Val Lys Gln Gln Ala Ser Ser
                                                90
                            85
    60 tgg gtg ccc ctg ctc aac aag aac tgc cac gcc ggg acc cag gtc ttc
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    61 Trp Val Pro Leu Leu Asn Lys Asn Cys His Ala Gly Thr Gln Val Phe
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                        100
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64	ctc	tgc	tcg	ctc	ttc	gcg	CCC	gtc	tgc	ctg	gac	cgg	CCC	atc	tac	ccg	683
65	Leu	Cys	Ser	Leu	Phe	Ala	Pro	Val	Cys	Leu	Asp	Arg	Pro	Ile	Tyr	Pro	
66				115					120					125			
											tcg						731
	Cys	Arg	_	Leu	Cys	Glu	Ala		Arg	Asp	Ser	Cys		Pro	Val	Met	
70	~~~	++-	130	~~~	++-	+	+~~	135	~~~	~ + ~	a++	226	140	~~~	224	tta	770
	_			-						_	ctt Leu	_	-	_	-		779
74	GIII	145	FIIC	Gry	FIIC	ı yı	150	rio	Giu	Mec	neu.	155	Cys	дар	шуы	1110	
	cca		aaa	gac	atc	tac		acc	atq	acq	ccg		aat	acc	acc	gaa	827
											Pro						
	160		-	-		165					170					175	
80	gcc	tcc	aag	CCC	caa	ggc	aca	acg	gtg	tgt	cct	CCC	tgt	gac	aac	gag	875
81	Ala	Ser	Lys	Pro	Gln	Gly	Thr	Thr	Val	Cys	Pro	Pro	Cys	Asp	Asn	Glu	
82					180					185					190		
	-				_			-			tgt						923
	Leu	Lys	Ser		Ala	Ile	Ile	Glu		Leu	Cys	Ala	Ser		Phe	Ala	
86				195					200					205			071
	_		_				~				gaa			_	_	_	971
90	Leu	Arg	мес 210	гуѕ	TTE	гах	GIU	215	ьуѕ	ьуѕ	Glu	ASII	220	Asp	ьуѕ	гуѕ	
	att	ata		aan	220	aad	aarr		cta	aad	ttg	aaa		atc	aad	aad	1019
											Leu						1015
94	110	225	110	цуб	110	27.5	230	110	Dea	27.5	Dea	235			275	270	
	aaq		ctq	aag	aaq	ctt		ctg	tac	ctg	aag		ggg	gct	gac	tgt	1067
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98	240					245	,				250					255	
		_				-										g ggc	1115
		Cys	s His	s Glr		_) Ası	ı Let	ı Seı			s Phe	e Lei	ıŢle		Gly	
102					260					265					270		
																g gac	1163
105	-	у тук	s val	. ду: 275		. GII	1 1 Y 1	ье	280		Alc	1 116	: nr:	з Буг 285) Asp	
		r aas			_	1 ++7	. aas				1 220	1 222	ato			cat	1211
	~	•		-		•				_	-	•	-	-		n His	1211
110	_		290	_			1-	295			1-	1-	300	_			
		ı tgo	ccc	aco	ttt	cag	tec	gto	, ttt	aac	g tga	a tto	etecc	ggg	ggca	agggtgg	1264
				Thi		-	-	-		-	_						
114	ļ.	305	õ				310)									
116	gga	ıggga	agcc	tcgg	ggtgg	ggg t	ggga	gcgg	gg gg	gggad	cagto	g ccc	ggga	acc	cgt	ggtcaca	1324
																gcagcat	1384
																cgggtaa	1444
																agccact	1504
	_															aaaagg	1564
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	-															cacgtt	1684
																ataccac	1744 1804
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134			iaca	grye	cay	.aa c	,444	ccaç	12 75	Jayay	gycat	. Lyc			9000	Jacaged	1004

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136 tttccgtgtg attgtctttg aatctgaatc agccagtctc agatgcccca aagtttcggt
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                                                                         1984
138 tectatgage eegggeatg atetgateee caagacatgt ggaggggeag eetgtgeetg
                                                                         2044
140 cctttgtgtc agaaaaagga aaccacagtg agcctgagag agacggcgat tttcgggctg
142 agaaggcagt agttttcaaa acacatagtt aaaaaagaaa caaatgaaaa aaattttaga
                                                                         2104
144 acagtccagc aaattgctag tcagggtgaa ttgtgaaatt gggtgaagag cttaggattc
                                                                         2164
146 taatctcatq ttttttcctt ttcacatttt taaaaqaaca atqacaaaca cccacttatt
                                                                         2224
148 tttcaaggtt ttaaaacagt ctacattgag catttgaaag gtgtgctaga acaaggtctc
                                                                         2284
150 ctgatccgtc cgaggctgct tcccagagga gcagctctcc ccaggcattt gccaagggag
                                                                         2344
152 geggatttee etggtagtgt agetgtgtgg ettteettee tgaagagtee gtggttgeee
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154 tagaacctaa caccccctag caaaactcac agagctttcc gtttttttct ttcctgtaaa
                                                                        2464
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156 gaaacatttc ctttgaactt gattgcctat ggatcaaaga aattcagaac agcctgcctg
158 ttcccccgca ctttttacat atatttgttt catttctgca gatggaaagt tgacatgggt
160 ggggtgtccc catccagega gagagtttca aaagcaaaac atctctgcag tttttcccaa
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162 gtaccctgag atacttccca aagcccttat gtttaatcag cgatgtatat aagccagttc
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164 acttagacaa ctttaccctt cttgtccaat gtacaggaag tagttctaaa aaaaatgcat
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166 attaatttet teececaaag eeggattett aattetetge aacaetttga ggacatttat
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168 gattgtccct ctgggccaat gcttataccc agtgaggatg ctgcagtgag gctgtaaagt
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170 ggcccctgc ggccctagcc tgacccggag aaaggatggt agattctgtt aactcttgaa
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172 gactecagta tgaaaatcag catgecegee tagttaceta ceggagagtt atcetgataa
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178 aaaaatgtgt atatatatta gctaattaga aatattctac ttctctgttg tcaaactgaa
                                                                        3184
180 attcagagca agttcctgag tgcgtggatc tgggtcttag ttctggttga ttcactcaag
                                                                         3244
182 agttcagtgc tcatacgtat ctgctcattt tgacaaagtg cctcatgcaa ccgggccctc
                                                                        3304
184 tetetgegge agagteetta gtggaggggt ttacetggaa cataagtagt taceacagaa
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186 tacggaagag caggtgactg tgctgtgcag ctctctaaat gggaattctc aggtaggaag
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188 caacagette agaaagaget caaaataaat tggaaatgtg aategeaget gtgggtttta
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190 ccaccgtctg tctcagagtc ccaggacctt gagtgtcatt agttacttta ttgaaggttt
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198 gatttgcctg tgatttccta attatcgcta gggccaaggt gggatttgta aagctttaca
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218 taactgcatt ttaccagatg ttttgatgtt atcgcttatg ttaatagtaa ttcccgtacg
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220 tgttcatttt attttcatgc tttttcagcc atgtatcaat attcacttga ctaaaatcac
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225 <210> SEQ ID NO: 2

226 <211> LENGTH: 313

227 <212> TYPE: PRT

228 <213> ORGANISM: Homo sapiens

230 <400> SEQUENCE: 2

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Input Set : A:\099-US1.ST25.txt
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232 233		Gly	Ile	Gly	Arg 5	Ser	Glu	Gly	Gly	Arg 10	Arg	Gly	Ala	Leu	Gly 15	Val
236 237	Leu	Leu	Ala	Leu 20	Gly	Ala	Ala	Leu	Leu 25	Ala	Val	Gly	Ser	Ala 30	Ser	Glu
240 241	Tyr	Asp	Tyr 35	Val	Ser	Phe	Gln	Ser 40	Asp	Ile	Gly	Pro	Tyr. 45	Gln	Ser	Gly
244 245	Arg	Phe 50	Tyr	Thr	Lys	Pro	Pro 55	Gln	Cys	Val	Asp	Ile 60	Pro	Ala	Asp	Leu
248 249	_	Leu	Cys	His	Asn	Val 70	Gly	Tyr	Lys	Lys	Met 75	Val	Leu	Pro	Asn	Leu 80
252 253	Leu	Glu	His	Glu	Thr 85	Met	Ala	Glu	Val	Lys 90	Gln	Gln	Ala	Ser	Ser 95	Trp
256 257	Val	Pro	Leu	Leu 100	Asn	Lys	Asn	Cys	His 105	Ala	Gly	Thr	Gln	Val 110	Phe	Leu
260 261	Cys	Ser	Leu 115	Phe	Ala	Pro	Val	Cys 120	Leu	Asp	Arg	Pro	Ile 125	Tyr	Pro	Cys
264 265	Arg	Trp 130	Leu	Сув	Glu	Ala	Val 135	Arg	Asp	Ser	Cys	Glu 140	Pro	Val	Met	Gln
	Phe 145	Phe	Gly	Phe	Tyr	Trp 150	Pro	Glu	Met	Leu	Lys 155	Cys	Asp	Lys	Phe	Pro 160
272 273	Glu	Gly	Asp	Val	Cys 165	Ile	Ala	Met	Thr	Pro 170	Pro	Asn	Ala	Thr	Glu 175	Ala
277		Lys		180	_				185					190		
281		Ser	195					200					205			
285	5	Met 210	-	•	-		215	-	_			220	_	•	_	
289	225	Pro				230					235					240
293	. •	Leu			245					250					255	
296 297	Cys	His	Gln	Leu 260	Asp	Asn	Leu	Ser	His 265	His	Phe	Leu	Ile	Met 270	Gly	Arg
300 301	Lys	Val	Lys 275	Ser	Gln	Tyr	Leu	Leu 280	Thr	Ala	Ile	His	Lys 285	Trp	Asp	Lys
304 305	-	Asn 290	Lys	Glu	Phe	Lys	Asn 295	Phe	Met	Lys	Lys	Met 300	Lys	Asn	His	Glu
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VERIFICATION SUMMARY

DATE: 08/26/2004

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TIME: 11:47:59

Input Set : A:\099-US1.ST25.txt

Output Set: N:\CRF4\08262004\J817525.raw

11 M:270 C: Current Application Number differs, Replaced Current Application No

11 M:271 C: Current Filing Date differs, Replaced Current Filing Date